

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110623\
 Data File : BF136151.D
 Acq On : 06 Nov 2023 13:26
 Operator : CG\JU
 Sample : 05237-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 111TH-ST-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2023
 Supervised By :mohammad ahmed 11/08/2023

Quant Time: Nov 06 13:50:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 06 00:53:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.816	152	97644	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	385835	20.000	ng	# 0.00
39) Acenaphthene-d10	9.857	164	196422	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	354167	20.000	ng	0.00
76) Chrysene-d12	14.010	240	206378	20.000	ng	0.00
86) Perylene-d12	15.498	264	234611	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	538629	86.683	ng	0.00
7) Phenol-d6	6.451	99	656523	84.800	ng	0.00
23) Nitrobenzene-d5	7.381	82	408241	63.783	ng	0.00
42) 2,4,6-Tribromophenol	10.651	330	186851	89.123	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	715380	58.058	ng	0.00
79) Terphenyl-d14	12.951	244	675236	50.845	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.116	128	43378	2.331	ng	99
52) Acenaphthene	9.886	154	37658	3.440	ng	98
55) Dibenzofuran	10.063	168	36717	2.300	ng	98
58) Fluorene	10.404	166	46095	3.857	ng	98
71) Phenanthrene	11.375	178	466437	26.157	ng	99
72) Anthracene	11.422	178	112364	6.149	ng	99
73) Carbazole	11.580	167	52475	3.305	ng	97
75) Fluoranthene	12.569	202	439371	23.984	ng	98
78) Pyrene	12.798	202	352683	19.383	ng	99
81) Benzo(a)anthracene	13.998	228	166501	12.186	ng	100
83) Chrysene	14.033	228	146701	10.903	ng	97
87) Indeno(1,2,3-cd)pyrene	16.998	276	61464	4.009	ng	98
88) Benzo(b)fluoranthene	15.057	252	161399m	11.626	ng	
89) Benzo(k)fluoranthene	15.086	252	60927m	4.436	ng	
90) Benzo(a)pyrene	15.427	252	118291	9.171	ng	97
92) Benzo(g,h,i)perylene	17.451	276	51675	6.291	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

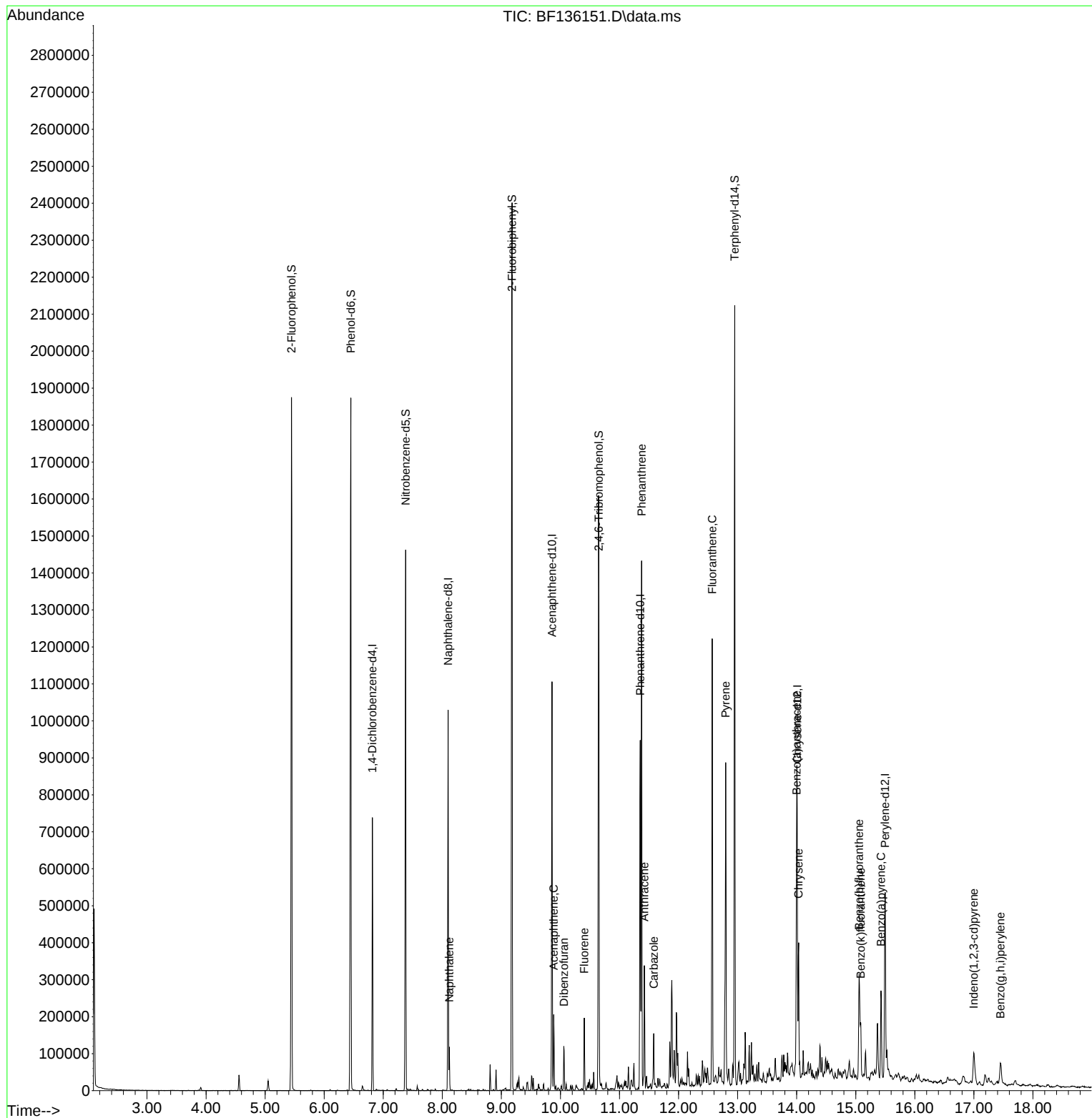
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110623\
Data File : BF136151.D
Acq On : 06 Nov 2023 13:26
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Sample : 05237-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

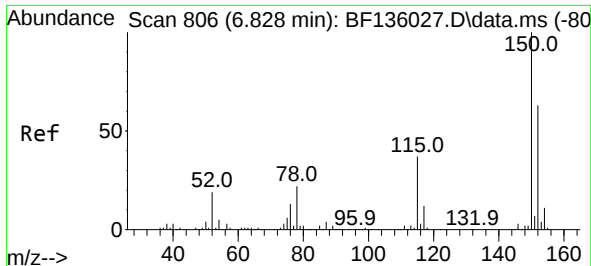
Instrument :
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ClientSampleId :
111TH-ST-1

Quant Time: Nov 06 13:50:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 06 00:53:35 2023
Response via : Initial Calibration

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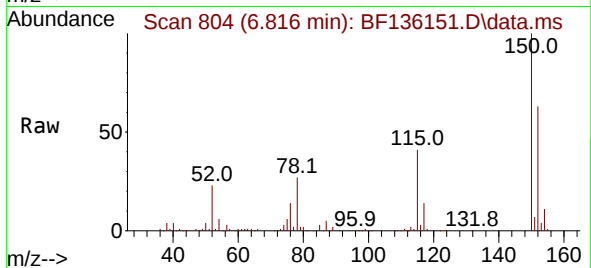
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.816 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

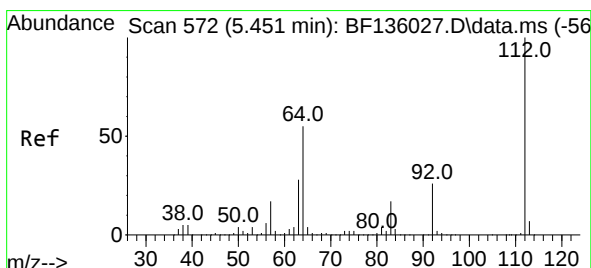
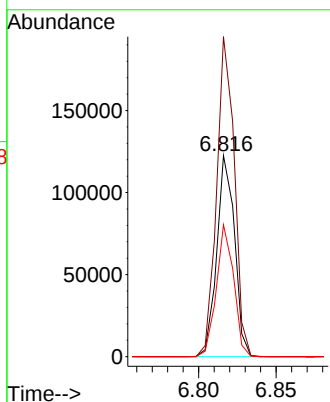
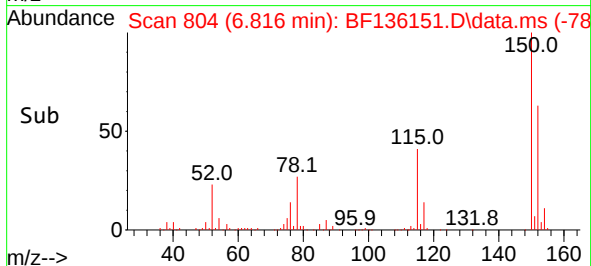
Instrument :
BNA_F
ClientSampleId :
111TH-ST-1



Tgt Ion:152 Resp: 97644
Ion Ratio Lower Upper
152 100
150 159.2 126.4 189.6
115 65.6 47.0 70.4

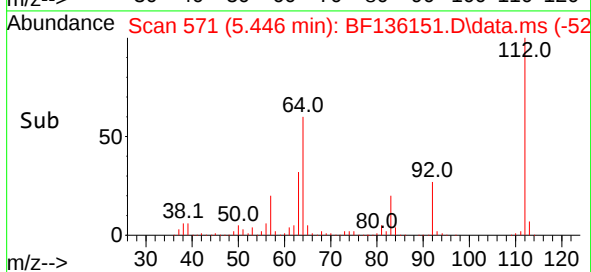
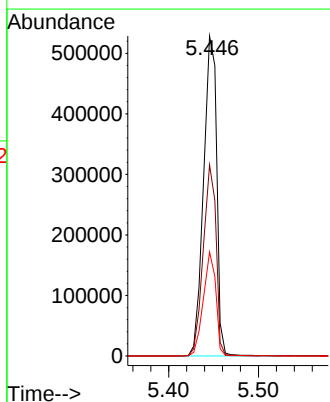
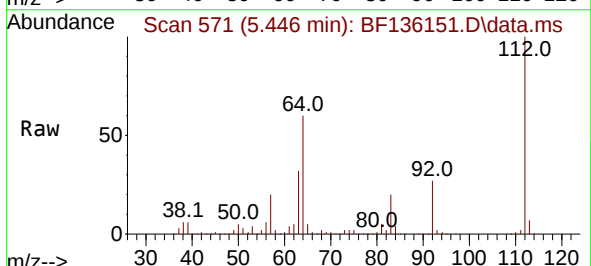
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#5
2-Fluorophenol
Concen: 86.683 ng
RT: 5.446 min Scan# 571
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

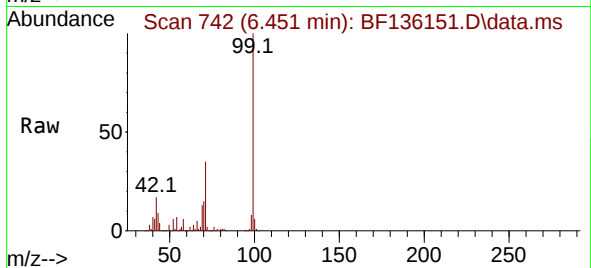
Tgt Ion:112 Resp: 538629
Ion Ratio Lower Upper
112 100
64 59.7 43.9 65.9
63 32.5 22.4 33.6





#7
Phenol-d6
Concen: 84.800 ng
RT: 6.451 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

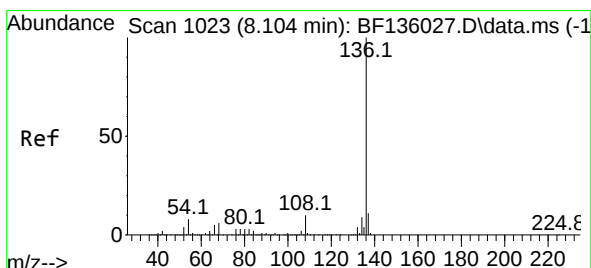
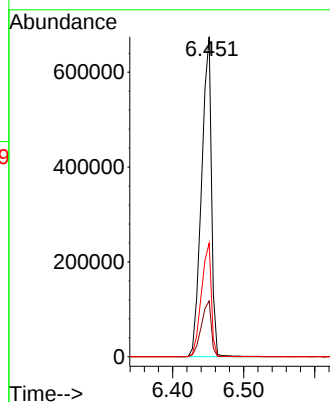
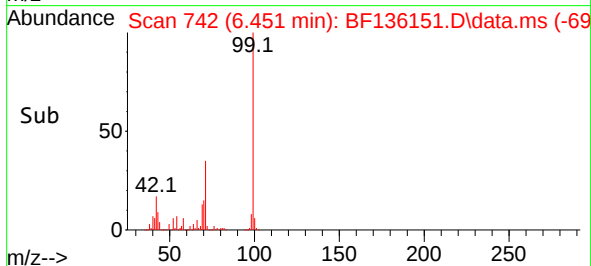
Instrument :
BNA_F
ClientSampleId :
111TH-ST-1



Tgt Ion: 99 Resp: 656523
Ion Ratio Lower Upper
99 100
42 17.4 13.7 20.5
71 35.5 25.9 38.9

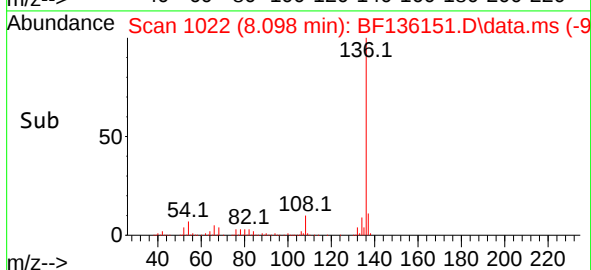
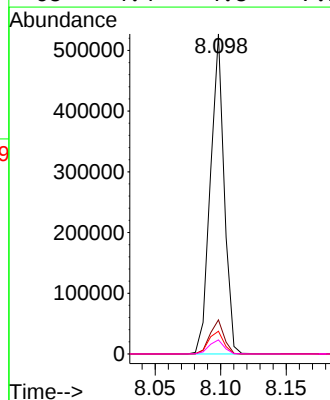
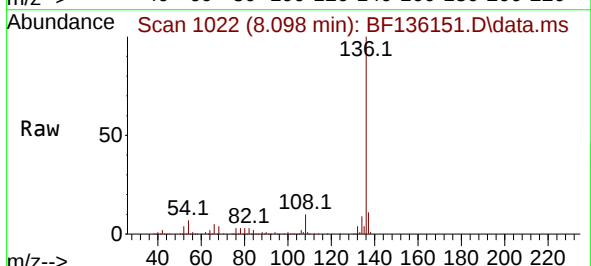
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Supervised By :mohammad ahmed 11/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Tgt Ion:136 Resp: 385835
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.1 6.6 9.8
68 4.4 4.8 7.2#





#23

Nitrobenzene-d5

Concen: 63.783 ng

RT: 7.381 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

ClientSampleId :

111TH-ST-1

Tgt Ion: 82 Resp: 40824

Ion Ratio Lower Upper

82 100

128 46.3 38.6 57.8

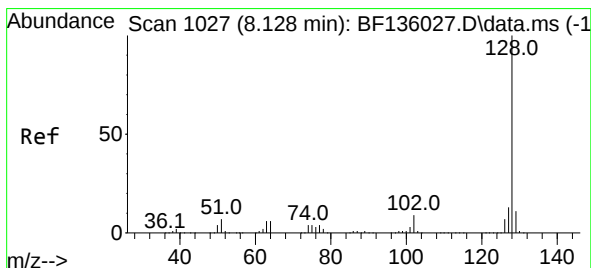
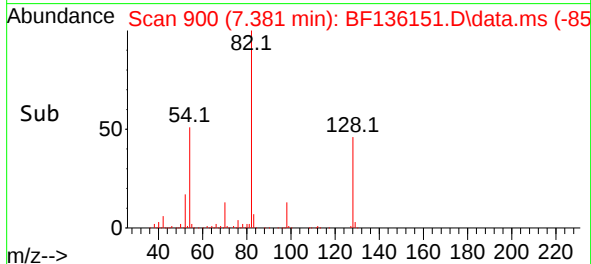
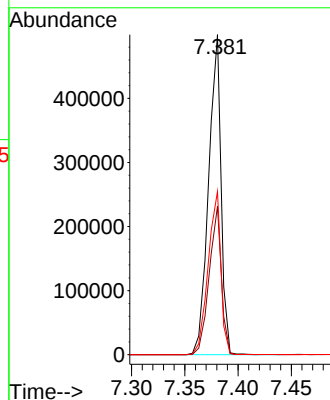
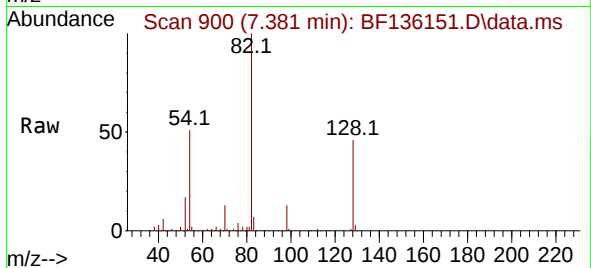
54 51.0 40.8 61.2

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#31

Naphthalene

Concen: 2.331 ng

RT: 8.116 min Scan# 1025

Delta R.T. -0.006 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

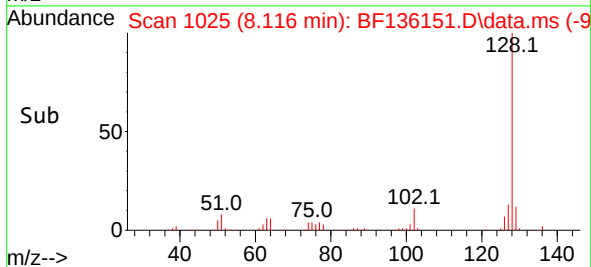
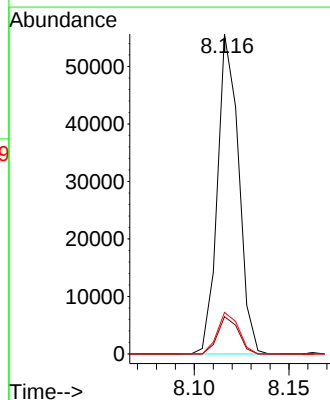
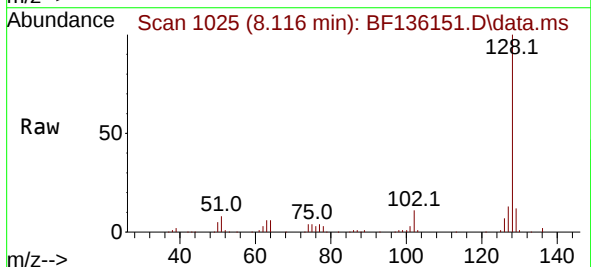
Tgt Ion:128 Resp: 43378

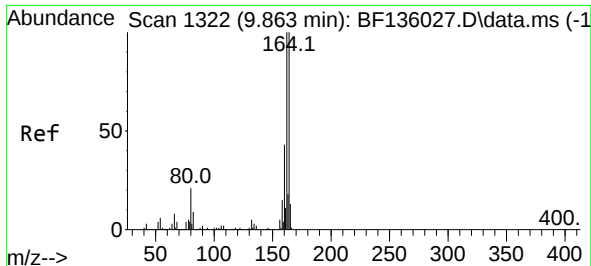
Ion Ratio Lower Upper

128 100

129 11.7 8.9 13.3

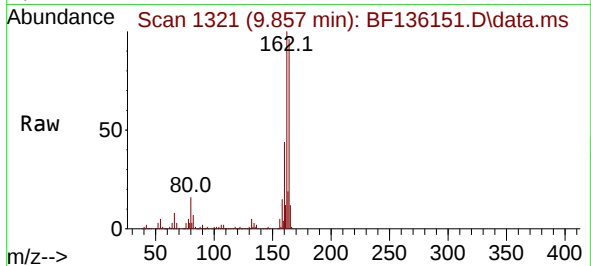
127 13.0 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

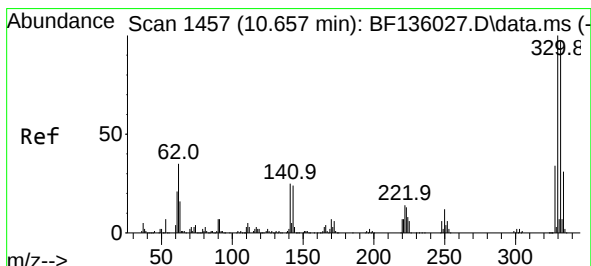
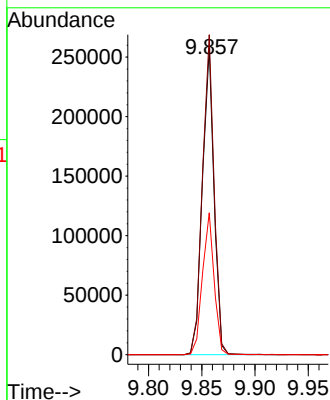
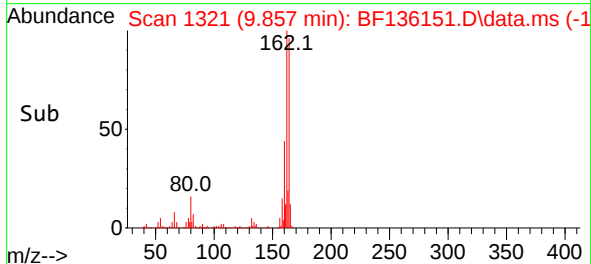
Instrument :
BNA_F
ClientSampleId :
111TH-ST-1



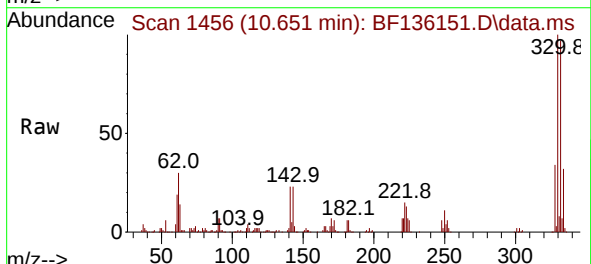
Tgt Ion:164 Resp: 19642
Ion Ratio Lower Upper
164 100
162 104.3 80.1 120.1
160 46.3 34.8 52.2

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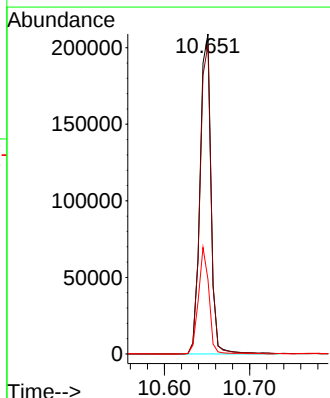
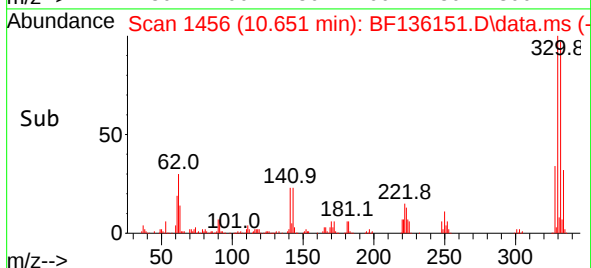
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023

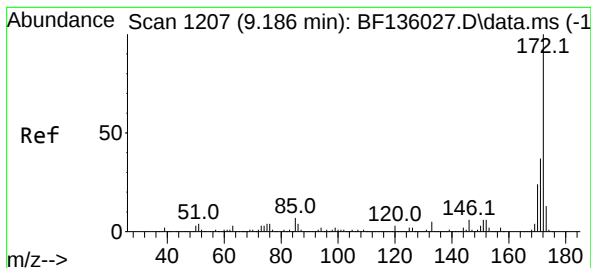


#42
2,4,6-Tribromophenol
Concen: 89.123 ng
RT: 10.651 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26



Tgt Ion:330 Resp: 186851
Ion Ratio Lower Upper
330 100
332 97.2 76.9 115.3
141 32.1 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 58.058 ng

RT: 9.181 min Scan# 1111

Delta R.T. 0.000 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

ClientSampleId :

111TH-ST-1

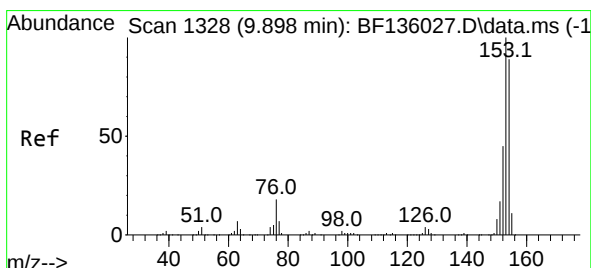
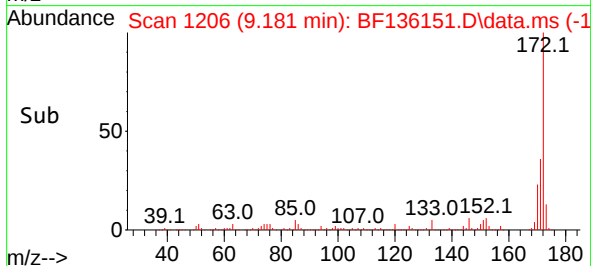
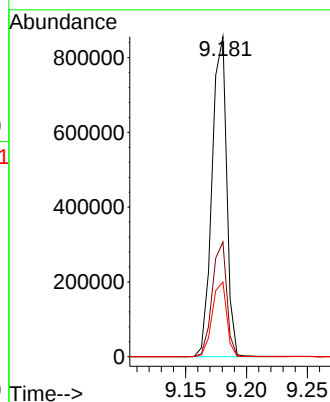
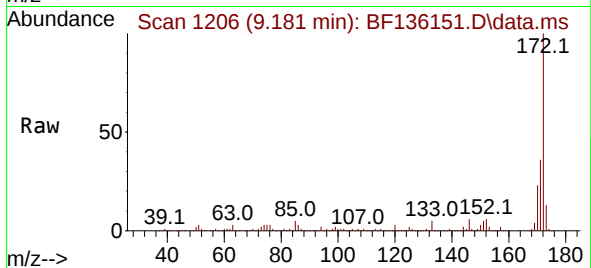
Tgt Ion:172 Resp: 715380
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.4 44.0
 170 23.3 19.3 28.9

Manual Integrations

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#52

Acenaphthene

Concen: 3.440 ng

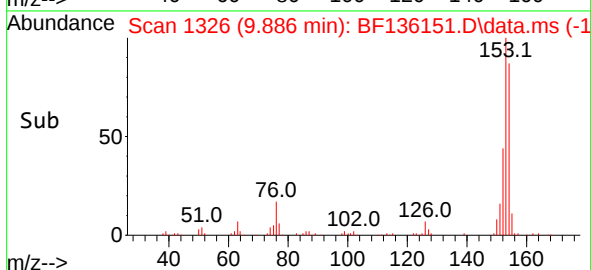
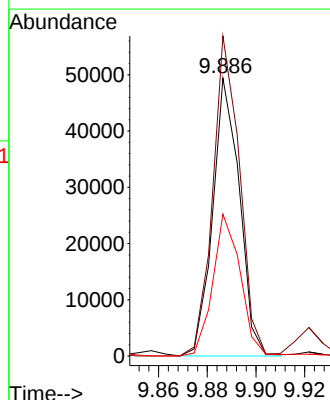
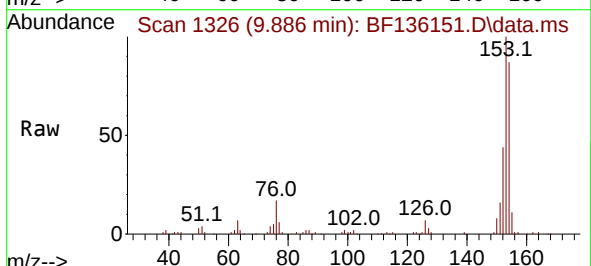
RT: 9.886 min Scan# 1326

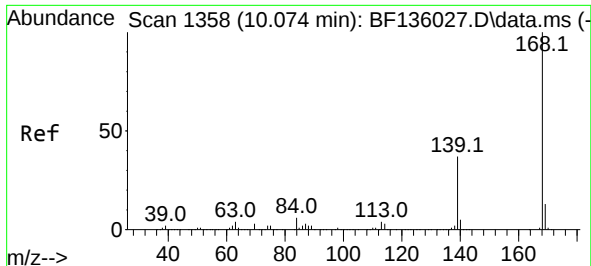
Delta R.T. -0.012 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

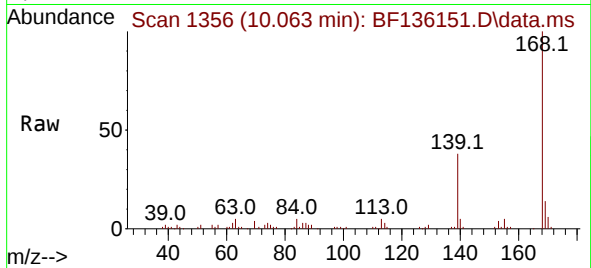
Tgt Ion:154 Resp: 37658
 Ion Ratio Lower Upper
 154 100
 153 115.2 89.9 134.9
 152 51.0 40.2 60.2





#55
Dibenzenofuran
Concen: 2.300 ng
RT: 10.063 min Scan# 1111
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

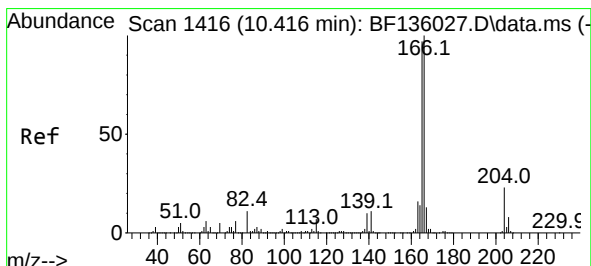
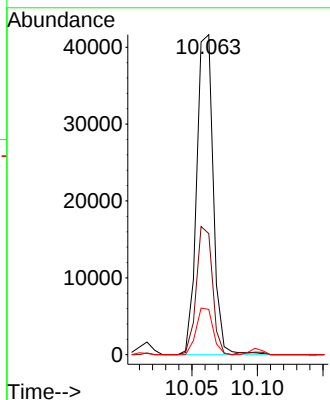
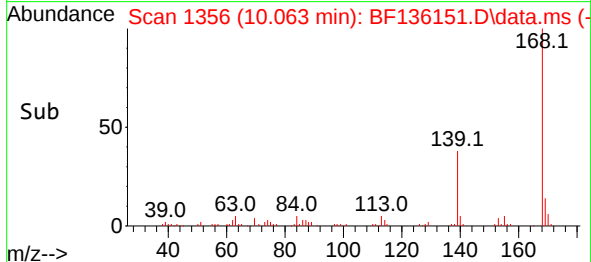
Instrument :
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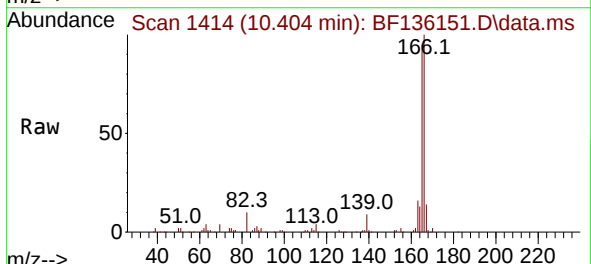
Tgt Ion:168 Resp: 3671
Ion Ratio Lower Upper
168 100
139 37.8 29.4 44.0
169 14.2 10.5 15.7

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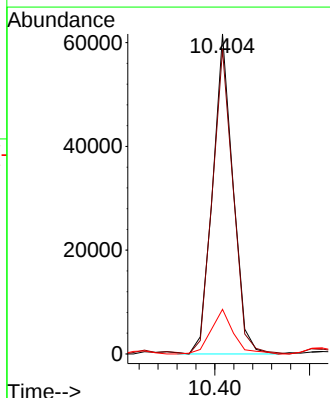
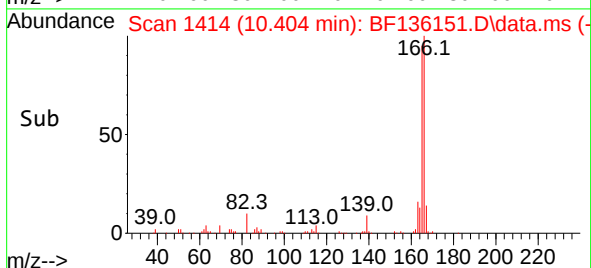
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023

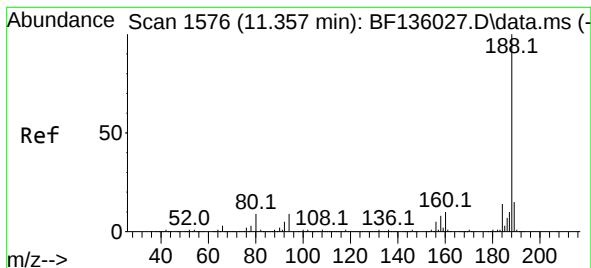


#58
Fluorene
Concen: 3.857 ng
RT: 10.404 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26



Tgt Ion:166 Resp: 46095
Ion Ratio Lower Upper
166 100
165 95.1 77.7 116.5
167 14.0 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.351 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

ClientSampleId :

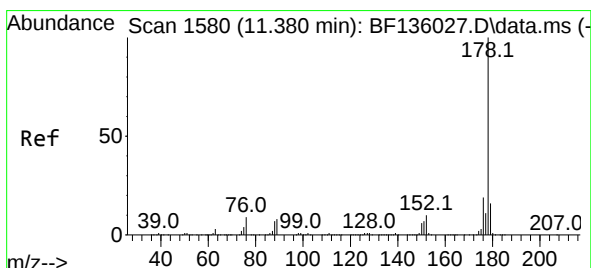
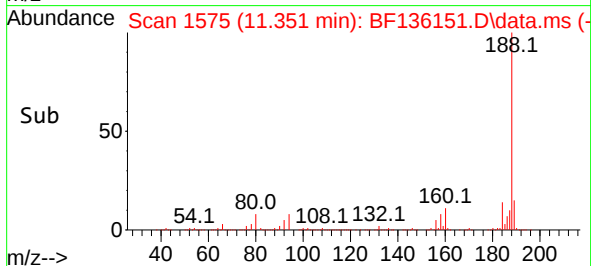
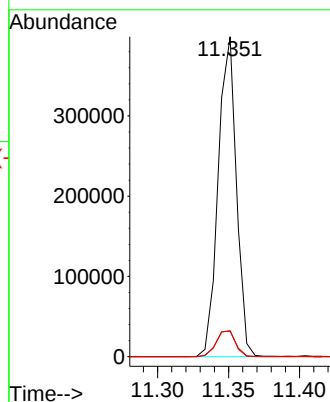
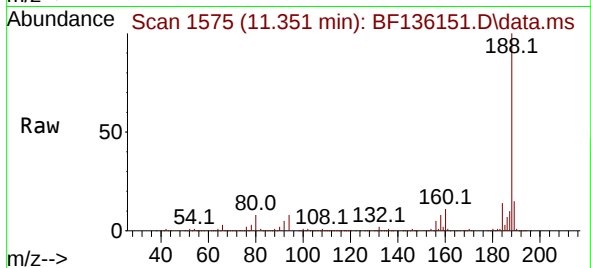
111TH-ST-1

Tgt Ion:188 Resp: 35416
 Ion Ratio Lower Upper
 188 100
 94 8.0 7.2 10.8
 80 8.1 7.4 11.0

Manual Integrations

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#71

Phenanthrene

Concen: 26.157 ng

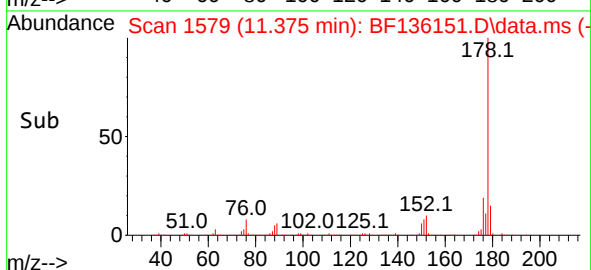
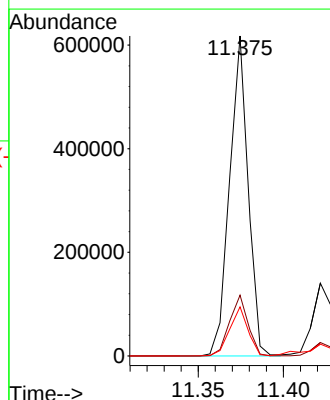
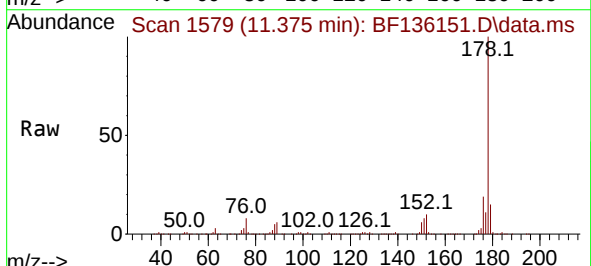
RT: 11.375 min Scan# 1579

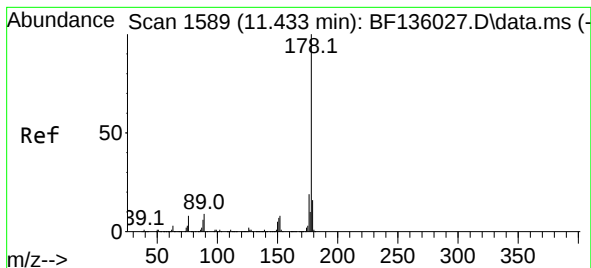
Delta R.T. 0.000 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Tgt Ion:178 Resp: 466437
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.5 23.3
 179 15.3 12.9 19.3





#72

Anthracene

Concen: 6.149 ng

RT: 11.422 min Scan# 1111

Delta R.T. -0.006 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

ClientSampleId :

111TH-ST-1

Tgt Ion:178 Resp: 112364

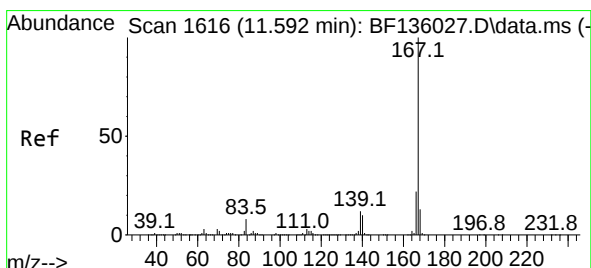
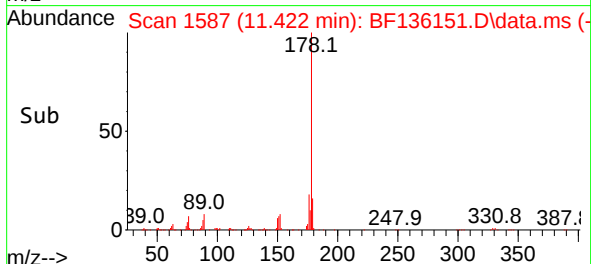
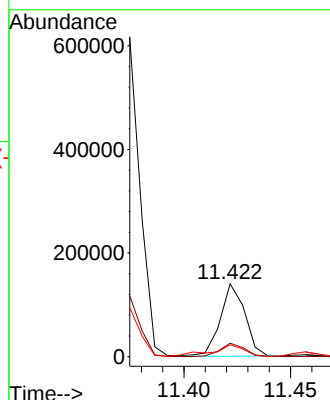
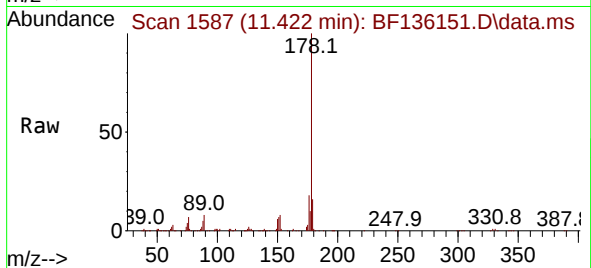
Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	16.2	12.6	18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2023

Supervised By :mohammad ahmed 11/08/2023



#73

Carbazole

Concen: 3.305 ng

RT: 11.580 min Scan# 1614

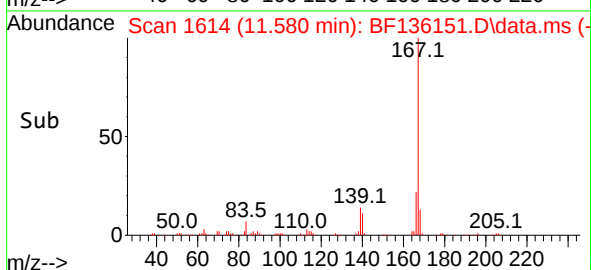
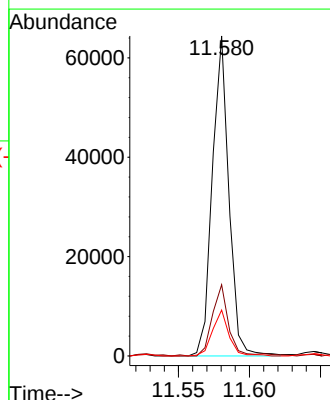
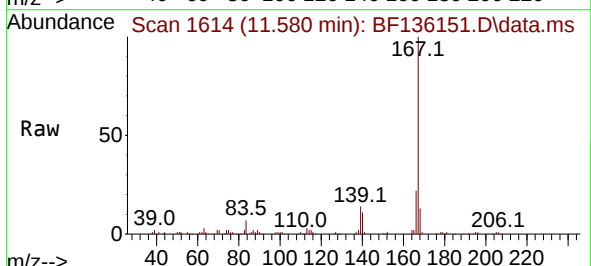
Delta R.T. -0.006 min

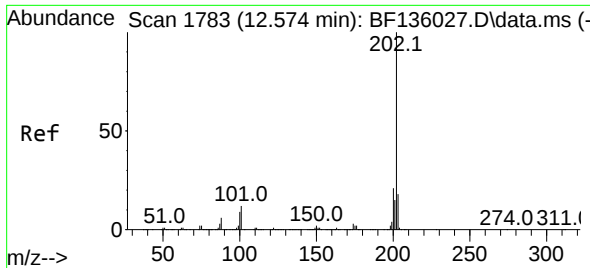
Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Tgt Ion:167 Resp: 52475

Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.2	25.8
139	14.4	9.9	14.9





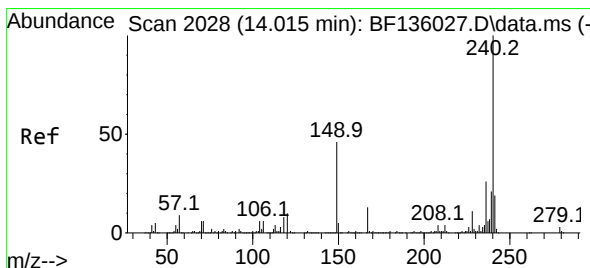
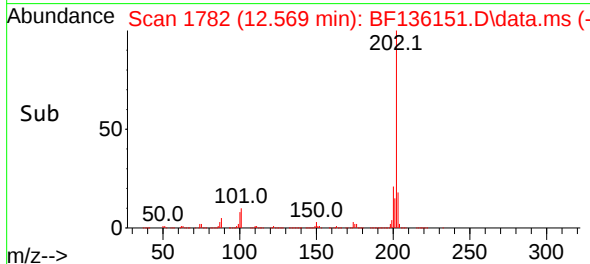
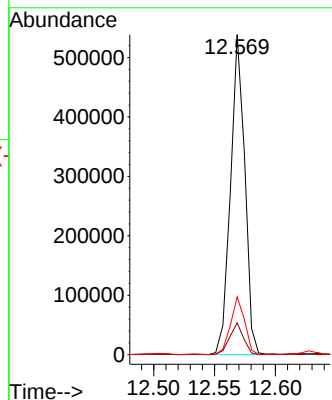
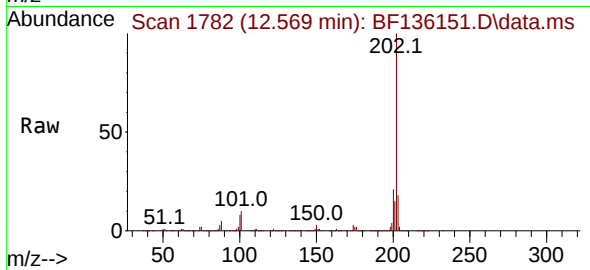
#75
Fluoranthene
Concen: 23.984 ng
RT: 12.569 min Scan# 1111
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Instrument :
BNA_F
ClientSampleId :
111TH-ST-1

Tgt Ion:202 Resp: 43937
Ion Ratio Lower Upper
202 100
101 9.9 0.0 31.8
203 18.1 0.0 37.9

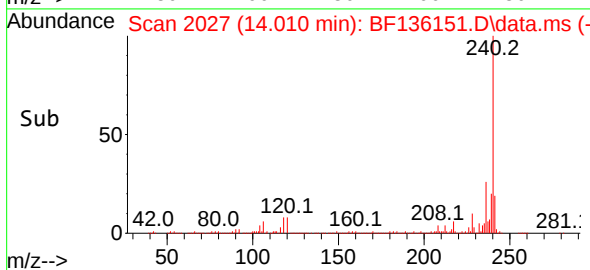
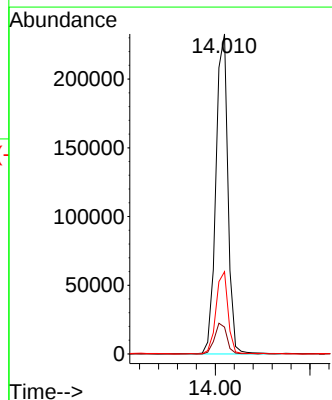
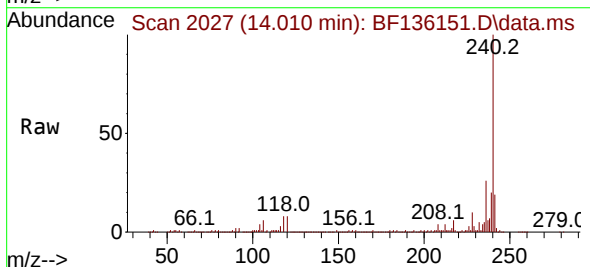
Manual Integrations
APPROVED

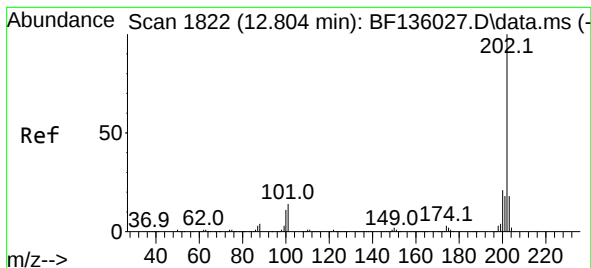
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Tgt Ion:240 Resp: 206378
Ion Ratio Lower Upper
240 100
120 8.4 7.6 11.4
236 25.7 20.6 31.0





#78

Pyrene

Concen: 19.383 ng

RT: 12.798 min Scan# 1821

Delta R.T. 0.000 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

ClientSampleId :

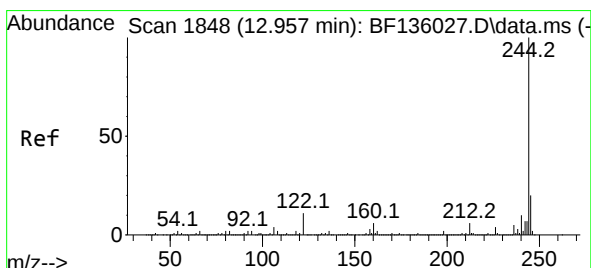
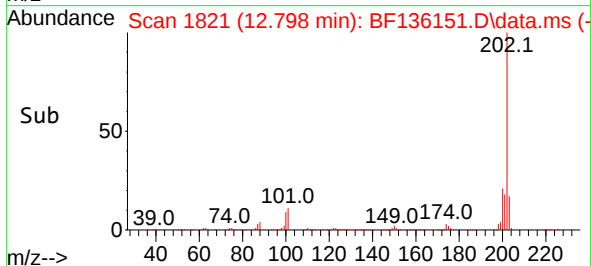
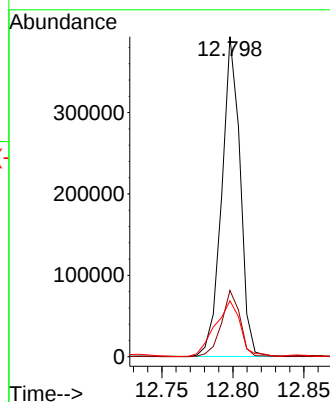
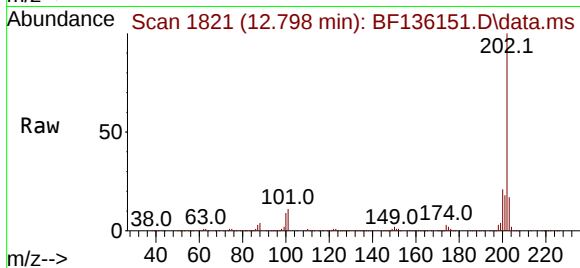
111TH-ST-1

Tgt Ion:202	Resp: 35268
Ion Ratio	Lower Upper
202 100	
200 20.7	17.0 25.4
203 17.4	14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023



#79

Terphenyl-d14

Concen: 50.845 ng

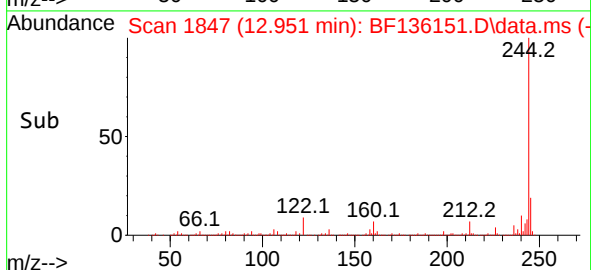
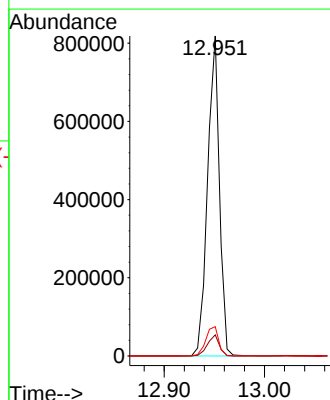
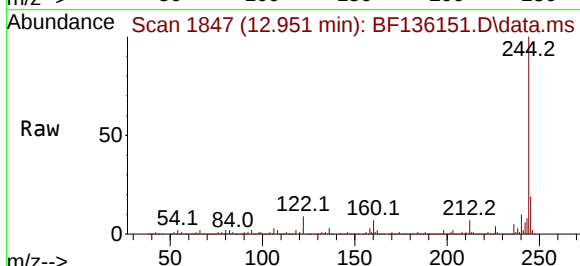
RT: 12.951 min Scan# 1847

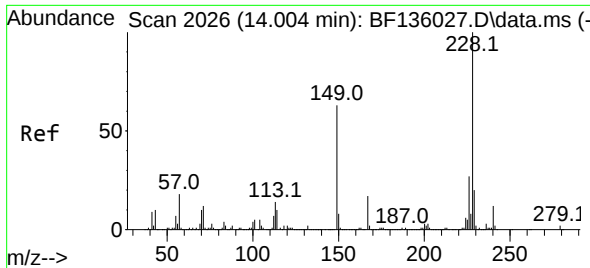
Delta R.T. 0.000 min

Lab File: BF136151.D

Acq: 06 Nov 2023 13:26

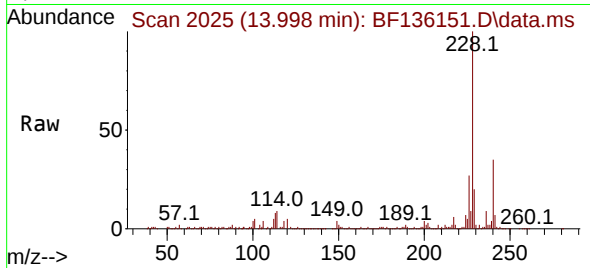
Tgt Ion:244	Resp: 675236
Ion Ratio	Lower Upper
244 100	
212 6.6	5.1 7.7
122 9.2	8.6 12.8





#81
Benzo(a)anthracene
Concen: 12.186 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

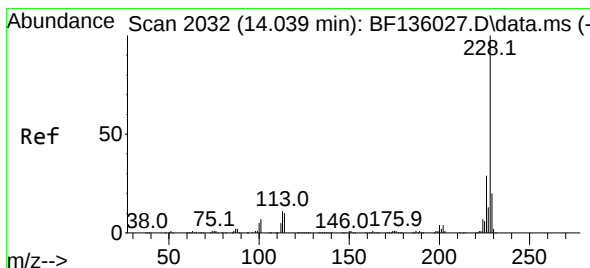
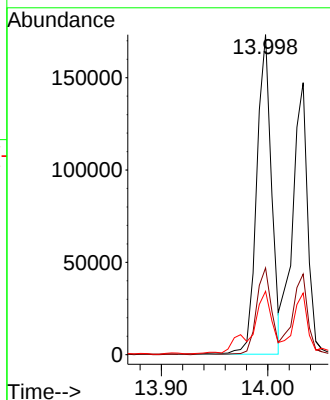
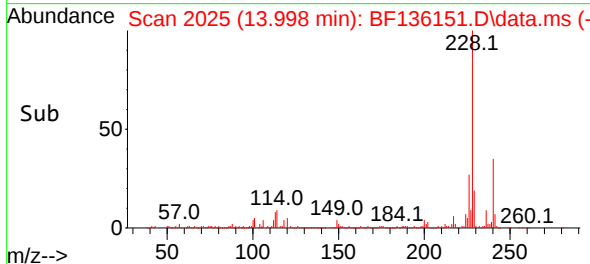
Instrument :
BNA_F
ClientSampleId :
111TH-ST-1



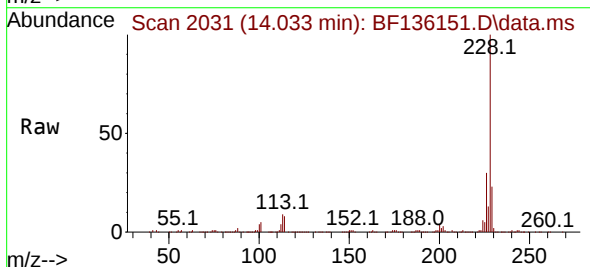
Tgt Ion:228 Resp: 166501
Ion Ratio Lower Upper
228 100
226 27.1 21.5 32.3
229 19.8 15.8 23.6

Manual Integrations
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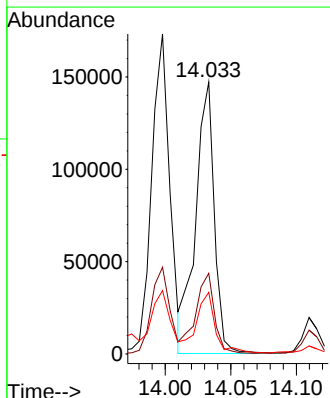
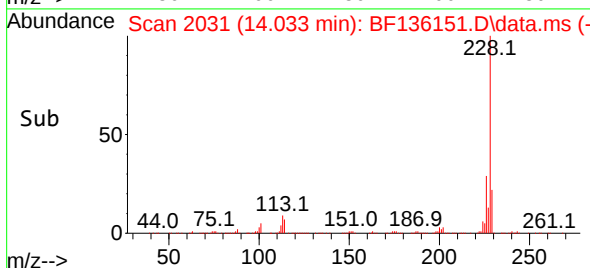
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023

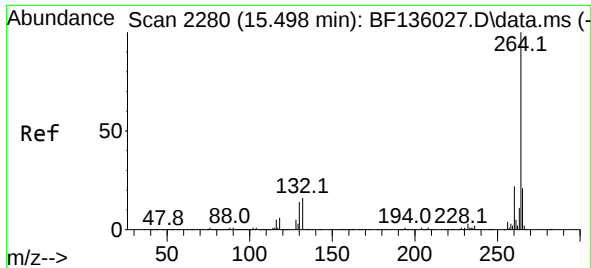


#83
Chrysene
Concen: 10.903 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26



Tgt Ion:228 Resp: 146701
Ion Ratio Lower Upper
228 100
226 29.6 23.5 35.3
229 22.6 16.0 24.0





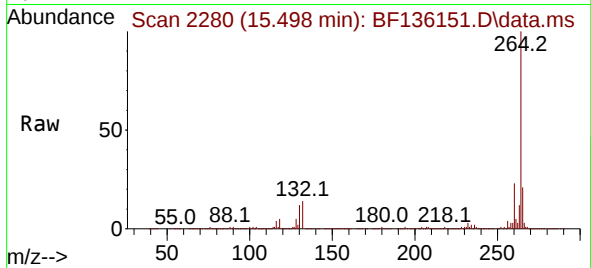
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.498 min Scan# 2111
Delta R.T. 0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

ClientSampleId :

111TH-ST-1

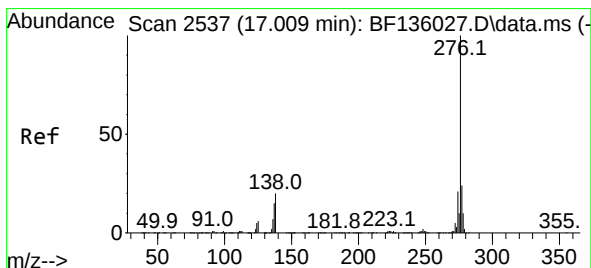
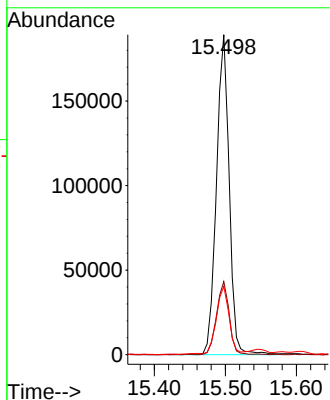
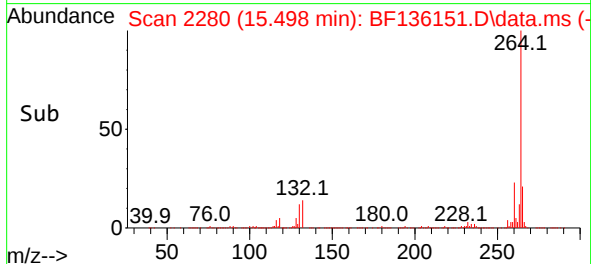


Tgt Ion:264 Resp: 23461
Ion Ratio Lower Upper
264 100
260 22.9 17.9 26.9
265 21.4 16.8 25.2

Manual Integrations

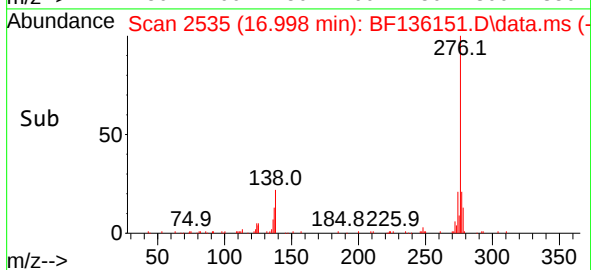
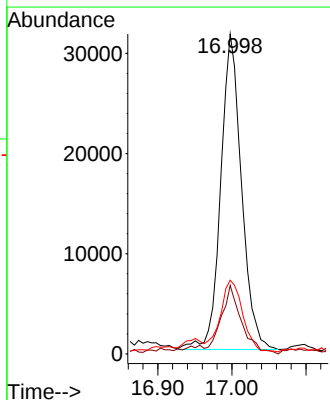
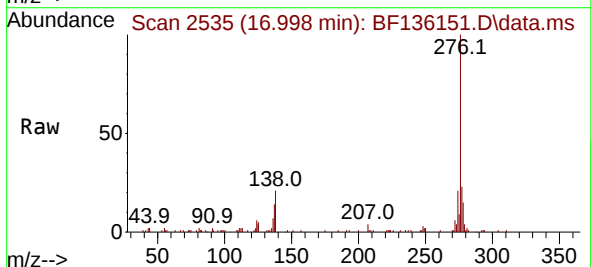
APPROVED

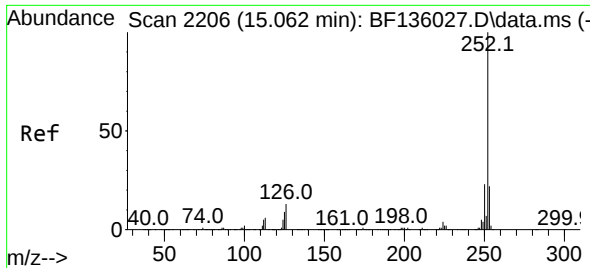
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.009 ng
RT: 16.998 min Scan# 2535
Delta R.T. -0.012 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

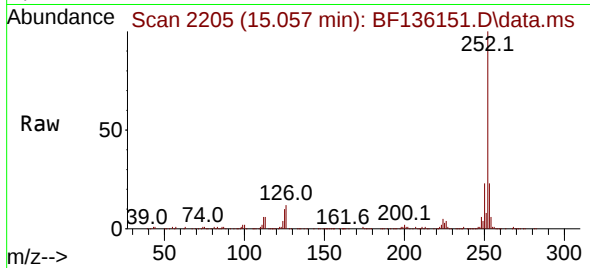
Tgt Ion:276 Resp: 61464
Ion Ratio Lower Upper
276 100
138 23.9 20.4 30.6
277 24.5 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 11.626 ng m
RT: 15.057 min Scan# 2110
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

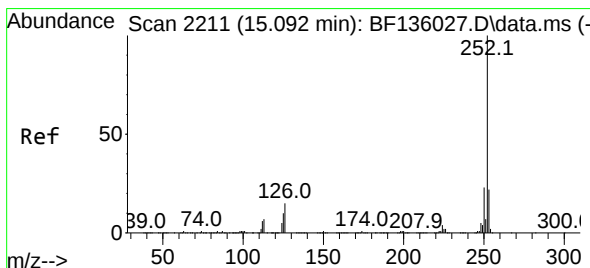
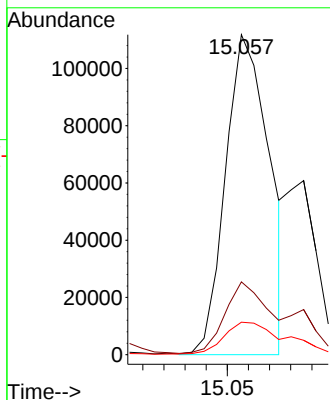
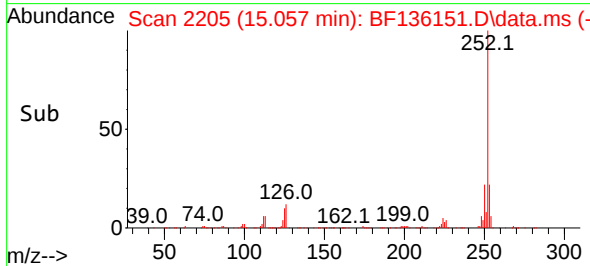
Instrument :
BNA_F
ClientSampleId :
111TH-ST-1



Tgt Ion:252 Resp: 16139
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 10.2 7.5 11.3

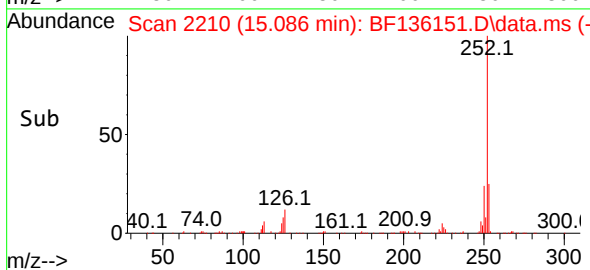
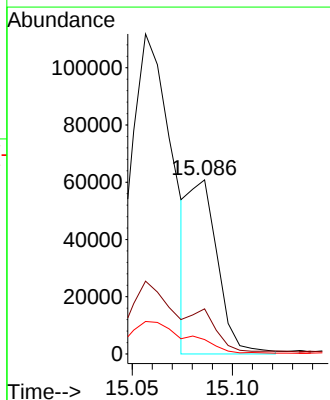
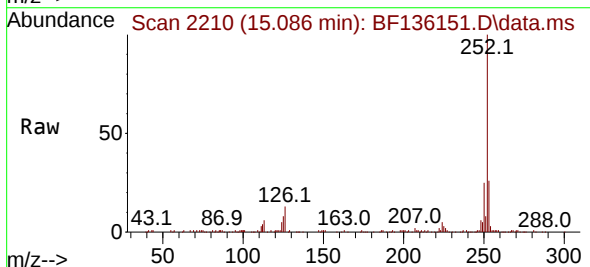
Manual Integrations
APPROVED

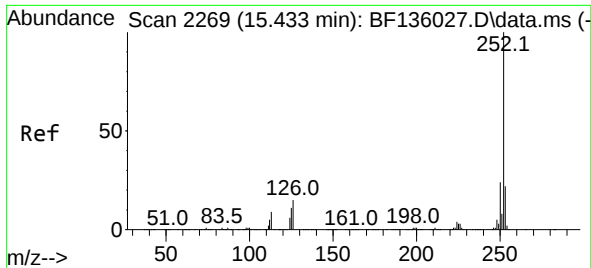
Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023



#89
Benzo(k)fluoranthene
Concen: 4.436 ng m
RT: 15.086 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Tgt Ion:252 Resp: 60927
Ion Ratio Lower Upper
252 100
253 25.9 17.4 26.0
125 8.2 8.0 12.0





#90
Benzo(a)pyrene
Concen: 9.171 ng
RT: 15.427 min Scan# 2111
Delta R.T. -0.006 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Instrument :

BNA_F

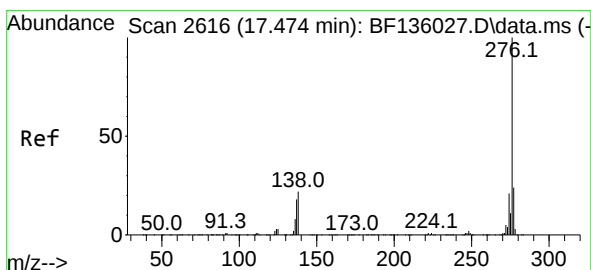
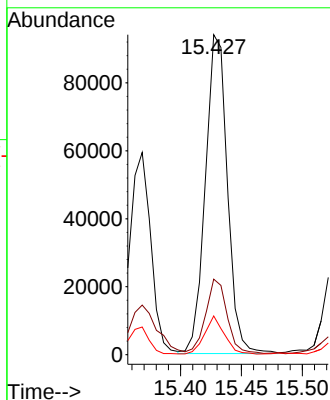
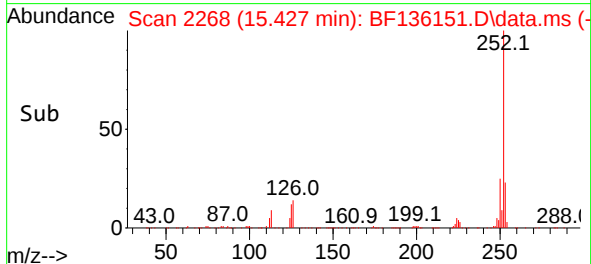
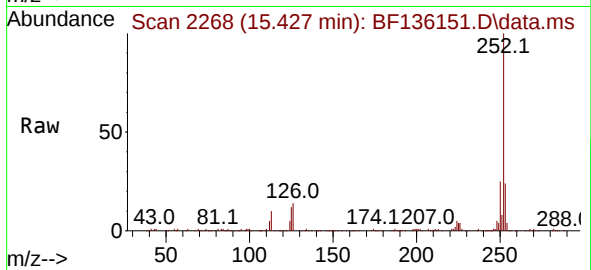
ClientSampleId :

111TH-ST-1

Tgt Ion:252 Resp: 11829
Ion Ratio Lower Upper
252 100
253 23.6 17.3 25.9
125 12.1 9.0 13.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2023
Supervised By :mohammad ahmed 11/08/2023



#92
Benzo(g,h,i)perylene
Concen: 6.291 ng
RT: 17.451 min Scan# 2612
Delta R.T. -0.023 min
Lab File: BF136151.D
Acq: 06 Nov 2023 13:26

Tgt Ion:276 Resp: 51675
Ion Ratio Lower Upper
276 100
277 23.7 19.0 28.4
138 22.9 17.4 26.2

